

Active Recombinant Human Tumor Protein P53

Cat. No. TP53-170H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TP53 protein expressed in <i>E.coli</i> encodes full length amino acids and has a molecular mass of 43.7 kDa.
Species	Human
Source	E.coli
Description	p53 is a tumor suppressor gene expressed in a wide variety of tissue types and is involved in regulating cell growth, replication, and apoptosis. It binds to mdm2, SV40 T antigen and human papilloma virus E6 protein p53 senses DNA damage and possibly facilitating repair. Mutation involving p53 is found in a wide variety of malignant tumors, including breast, ovarian, bladder, colon, lung, and melanoma.
Formulation	5g/5μl purified human p53 in 20mM Tris-Acetate, pH 8, 0.6M NaCl and 50% Glycerol.
Application	• P53 is an excellent substrate for kinase assays; • It can be used as a reagent for development of DNA based binding Assay.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Activity	Active in DNA binding assays.
Storage & Stability	For long term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
Full Length	Full L.

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	TP53 tumor protein p53 [Homo sapiens]
Synonyms	TP53; tumor protein p53; p53; LFS1; TRP53; FLJ92943; Antigen NY-CO-13; Phosphoprotein p53; Tumor suppressor p53; p53 transformation suppressor; p53 tumor suppressor; transformation-related protein 53
Gene ID	7157
mRNA Refseq	NM_000546
Protein Refseq	NP_000537
MIM	191170
UniProt ID	P04637
Chromosome Location	17p13.1
Pathway	Amyotrophic lateral sclerosis (ALS); Apoptosis; Basal cell carcinoma; Bladder cancer; Cell cycle; Chronic myeloid leukemia; Colorectal cancer; Endometrial cancer; Glioma; Huntington's disease; MAPK signaling pathway; Melanoma; Neurotrophin signaling pathway; Non-small cell lung cancer; Pancreatic cancer; Pathways in cancer; Prostate cancer; Small cell lung cancer; Thyroid cancer; Wnt signaling pathway; p53 signaling pathway; Cell Cycle Checkpoints
Function	ATP binding; DNA strand annealing activity; chaperone binding; chromatin binding; copper ion binding; enzyme binding; metal ion binding; promoter binding; protein N-terminus binding; protein heterodimerization activity; transcription factor activity;

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transcription factor binding; zinc ion binding

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